BEFORE THE 1 POLLUTION CONTROL HEARINGS BOARD STATE OF WASHINGTON 2 IN THE MATTER OF 3 SCOTT PAPER COMPANY, 4 Appellant, PCHB Nos. 81-10 and 81-21 5 FINAL FINDINGS OF FACT, ٧. CONCLUSIONS OF LAW C AND ORDER STATE OF WASHINGTON, DEPARTMENT OF ECOLOGY, 7 Respondent. S g

These matters, the consolidated appeals from the issuance of two civil penalties for the alleged violation of chapter 173-410 WAC, came before the Pollution Control Hearings Board, David Akana (presiding) and Gayle Rothrock, at a formal hearing in Lacey on May 18 and June 30, 1981.

Appellant Scott Paper Company was represented by its attorney,
Julian C. Dewell; respondent Department of Ecology was represented by
Wick Dufford, Assistant Attorney General. Court reporters Lois
Fairfield and Marilyn Mitchell recorded the proceedings.

A PARK SERVER

10

11

12

1 \*1

14

15

16

17

Having heard the testimony, having examined the exhibits, and naving considered the contentions of the parties, the Board makes these FINDINGS OF FACT

Ι

Appellant Scott Paper Company owns and operates a sulfite pulping fill in Everett, Washington. The facility includes a recovery boiler which is fueled by spent sulfite liquor (SSL), a byproduct from the pulping of wood chips in digesters. Heat from the boiler exhaust gases is recovered in a cooling tower. The gas is passed through an accorption tower where sulfur dioxide (SO<sub>2</sub>) is removed and the gas in their cooled. At this point, the gas is fully saturated with water and has a temperature of about 85 degrees Fahrenheit(F). The gas then enters two demister units which remove particulate matter and some discuss from the gas strong. After leaving the demisters, the gas, a turated with water, passes by an opacity mounter then is ducted into a 200 toot high exhaust stack and discharged into the atmosphere.

ΙI

on-lin while the third unit is cleaned. Each demister contains 33 of forces fiberglass placed elements. Lucii element is about 10 feet in 4 and 2 feet in diameter and placed verbically in the demistre.

III

The monitor recorded opacity reading, exceeding 35 paraent on whist 4, 6, 20, 20, 24, September 8 through 18 and on October 12, 1960 - 5 total of 150 exacedences was counted. These extendinger with

] ı

3

4

5

Ų

٤

۲,

1.1

2

3

5

6

4

7

8

9 10

11

13

16

. ı

\_4

٠,

the basis for the issuance of civil penalties relating to opacity violations in Docket Nos. DE 80-703 and 81-111.

IV

Sulfur dioxide emissions exceeded the 300 parts per million (ppm) hourly standard on August 6 and 20, and November 2, 3, 17 and 20, 1980. A total of thirteen exceedences was counted. Civil penalties were issued for each event in Docket Nos. DE 80-703 and 81-111.

v

The recorded violations on September 8 and 18 (2 for opacity), and November 2 and 17 (4 for  $SO_2$ ) are conceded or not contested. Civil penalties associated with each of the violations total \$1050.

VΙ

The following recorded violations were caused by the unavoidable, unexpected and unforeseen failure of equipment: August 4 - opacity (broker demister box damper handle), August 6 - SO<sub>2</sub> (acid tank storage level indicator failure), August 6 - opacity (related to same SO<sub>2</sub> violation), August 20 - SO<sub>2</sub> (check valve plug failure on digester). August 20 - opacity (related to same SO<sub>2</sub> violation), August 23 and 24 - opacity (gasket failure on digester), November 2 - SO<sub>2</sub> (vat level control valve failure), and November 20 - SO<sub>2</sub> (pressure relief valve failure). Scott reported the upsets by telephone and written report. Respondent views the various operational and equipment malfunctions as a chronic problem which are not "unavoidable" within the meaning of WAC 173-410-067.

1

2 3

÷ 5

U ī

8 9

171

Soptember 10.

Scott has experienced isolated failures of the fiberglass elements over the past five years. There was a failure of one element in November, 1979. In April 1980, deterioration was observed in the elcrents of one demister unit. A replacement set of elements corrected the problem. In September, 1980 another failure occurred.

The recorded violations on September 9, 1980 were caused by the unexpected and unforescen failure of five fiberglass plastic elements in one demister box. Although the opacity exceeded the monitor scale of 40% on that day, the unit continued to be operated until clearing o September 11. The unit was returned to service on September 12-14, cleaned, then again returned to service on September 15-17. Opacity readings continued to exceed the 35% monitor standard when the unit and politating. On September 17, the unit was inspected and five finarglass elements were found defective. Scott began to investigate the dause of the fiberglass failure.

The cause of the failures was discovered to be the presence of a Fluoride ion contaminant in the sulfuric acid used in the process concaused the filters to gradually interiorate. The dayse was confirmed to Scott by the fiberglass element supplier in a March 1984 letter. There was no reason for Scott to suspect the dausc of the full tel. However, Scott knew or should have known that the subject demister was not operating properly by the second day of operation,

FI VL FINDINGS OF FACT, LDICEUSIONS OF LAW & ORDER

VIII

The subject demister was otherwise maintained and operated in a reasonable manner. The emission exceedences did not result from inadequate design, operation, or maintenance of the facility, but from an unsuspected element in supposedly pure sulfuric acid. However, after Scott knew or should have known of the emission exceedences, repairs or corrections were not expeditiously made.

IX

Particulate emissions from Scott's recovery system are well within the state standards for the facility in question.

Х

Any Conclusion of Law which should be deemed a Finding of Fact is nereby adopted as such.

From these Findings the Board comes to these

## CONCLUSIONS OF LAW

I

The Board has jurisdiction over the persons and subject matter of tis proceeding.

JI

WAC 173-410-040(7), as filed on August 20, 1980 and effective 30 mays thereafter (WSR 80-11-061), is substantially similar to WAC 173-410-036. Appellant would suffer no undue prejudice from the

1

2

3

4

5

6

1

۶

9

1 1

1 |

1.

ì

1

There is a substantial difference in the meaning of "opacity" between the new regulation (NAC 173-410-021(22)) and the old regulation (NAC 173-410-021(14)). The old definition excludes uncombined water; the new definition includes any matter which would obscure an object. Opacity, as used in the instant matters, appears to be from the new regulation.

<sup>+1\</sup>AL FINDINGS OF FACT, LOUGHUSIONS OF LAW & ORDER

I | use of either standard on any of the opacity events. The provision used by the parties is WAC 173-410-040 which provides in part:

- (7) Opacity. No person shall cause or allow the emission of a plume from a recovery system or acid plant or other source which has an average opacity greater than thirty-five percent at or within a reasonable distance of the emission point, for more than six consecutive minutes in any sixty minute period, except as described in WAC 173-410-040(8) and 173-410-040(9). The opacity determination shall be according to procedures contained in "Source Test Manual - Procedures for Compliance Testing", on file with the department. There shall be no more than one violation for any sixty minute period.
- The provisions of WAC 173-410-040(7) shall not (8) apply when the presence of condensed water droplets is the only reason for the opacity of the olume to exceed thirty-five percent.

A major issue in the case is whether water droplets caused the opacity monitor to record a higher opacity than what would have been correct. T, brove a violation of WAC 173-410-040(7), respondent must show that a plane was emitted which had an average opacity of more than 35 percent at or within a reasonable distance of the emission point for ١, have than six consecutive minutes using procedures on file with the i-partment. The evidence presented does not show that the opacity functor would record a violation in a manner described in the introduct regulation. For this reason, the alleged opacity violations and of its genalties assessed therefor aboutd be reversed. Moseover, int regulation is also not applicable when the presence of condenned water droplets is the only reason for the opacity of the plume to . Seed 35 persent. The evidence presented shows that the monitor recorded opacity readings which included a substantial presence of conformed water. However, it

2

3

4

į.

G

7

8

Ŋ.

was not shown that the <u>only</u> reason for the opacity to exceed 35 percent was the presence of condensed water droplets during the period of September 9 through 17, 1980, when the demister was not working properly. The evidence shows that on other occasions, it was more likely than not that the only reason for the recorded opacity to exceed 35 percent was the presence of condensed water droplets at the monitor. For this additional reason, the alleged opacity violations occurring on these other occasions should be reversed. Lastly, those alleged violations occurring on August 4, 6, 20, 23, and 24 were excusable under the provisions of WAC 173-410-067. (See Finding of Fact VI.)

III

NAC 173-410-040(1)(e), as filed on August 20, 1980 and effective 30 days thereafter (WSR 80-11-061), is substantially similar to the standard authorized by WAC 173-410-041 and regulatory order DE 78-106 (Pebruary 27, 1978). Appellant would suffer no undue prejudice from the use of either standard on any of the alleged  ${\rm SO}_2$  events. The provision used by the parties is WAC 173-410-040(1)(e) which provides:

Emissions from recovery systems constructed after January 24, 1972, shall not exceed 300 ppm (dry) of sulfur droxide for any hourly average.

Paspondent showed that a violation of the standard occurred on the dates and times alleged. Appellant contends that upset conditions at the facility caused the emissions to exceed the SO<sub>2</sub> hourly standard. Appellant reported each incident, furnished written details, and took remedial steps to minimize the emissions as outlined

FINAL FINDINGS OF PACT, PORCLUSIONS OF LAW & ORDER

1

2

3

4

5

6

7

8

9

 $I_{1}$ 

11

ļ -t

ڙ ل

16

1

24)

in WAC 173-410-067(2). The parties differ as to whether the incidents were "unavoidable" as defined in WAC 173-410-067(5). We conclude that the contested incidents relating to SO<sub>2</sub> emissions were unavoidable. See Finding of Fact VI. Accordingly the incidents were excusable and the civil penalties issued therefor should be reversed.

ΙV

Those civil penalties issued on September 8 and 18 (DE 80-703) and November 2 and 17 (DE 81-111) are affirmed.

V

Appellant's contention relating to its requested change in opacity limit is not susceptible to determination in this proceeding.

VΙ

Appellant's remaining contentions were withdrawn or are without merit

VII

Any Finding of Fact which should be deemed a Conclusion of Law is hereby adopted as such.

From these Conclusions the Board enters this

FINAL FINDINGS OF FACT, LC JUSIONS OF LAW & ORDER

1

2

3

5

6

8

9

10

12 :

13 1

**)** ,

## ORDER

	1.	The	cıvi:	l pe	nalties	issued	to	Sco	ott	Paper	Comp	pany	for	the	
A T C	platic	on o	E WAC	173	-410-040	0(1)(e)	, f	our	ın	Docket	DE	80-7	03 8	and	five
ın	Docke	et 8	1-111	are	reverse	≥đ.									

- 2. The civil penalties issued in Scott Paper Company for the violation of WAC 173-410-040(7), 147 in Docket DE 80-703, and one in Docket DE 81-111, are reversed.
- 3. The civil penalties issued for violations on September 8 and 18 in Docket DE 80-703 and November 2 and 17 in Docket DE 81-111 totalling \$1050 are affirmed.

DONE this 9th day of October, 1981.

POLLUTION CONTROL HEARINGS BOARD

DAVID AKANA Mamba

DAVID AKANA, Member

GAYLE ROTHROCK, Member

Did Not Participate
NAT W. WASHINGTON, Chairman

**-** j

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

1 S

14

\_#J

-' -

14

25

26